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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/649,536	08/26/2003	Andrew Jeremiah Burns	2003P12748US	5435
7590 07/14/2005		EXAMINER		
Siemens Corpo	oration	HEINRICH, SAMUEL M		
Intellectual Prop	erty Department			
170 Wood Avenue South			ART UNIT	PAPER NUMBER
Iselin, NJ 08830			1725	
			DATE MAIL ED: 07/14/200	•

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No	Applicant(s)		W			
a *				''					
Office Action Summary		10/649,536		BURNS ET AL.					
	carried free free free free free free free fr	Examiner		Art Unit					
	bo MAILING DATE of this communication	Samuel M. H		1725	1-1				
Period for F	• •	•		•	ddress				
THE MA - Extension after SIX - If the per - If NO per - Failure to Any reply	TENED STATUTORY PERIOD FOR ILING DATE OF THIS COMMUNICA as of time may be available under the provisions of 3 (6) MONTHS from the mailing date of this communicion for reply specified above is less than thirty (30) did for reply is specified above, the maximum statute or reply within the set or extended period for reply will, received by the Office later than three months after atent term adjustment. See 37 CFR 1.704(b).	ATION. 7 CFR 1.136(a). In no event, ation. ays, a reply within the statutor by period will apply and will exply statute. cause the applicate.	however, may a reply be tin y minimum of thirty (30) day opire SIX (6) MONTHS from tion to become ABANDONE	nely filed s will be considered time the mailing date of this of D (35 U.S.C. § 133)	ly. communication.				
Status			•						
1)⊠ R€	esponsive to communication(s) filed o	on 10 May 2005.							
3)□ Sii									
	osed in accordance with the practice								
Disposition	of Claims								
4)⊠ Cl	aim(s) <u>1-35</u> is/are pending in the app	lication.							
4a) Of the above claim(s) <u>18-35</u> is/are withdrawn from consideration.									
5)□ Cl	5) Claim(s) is/are allowed.								
6)⊠ Cl	aim(s) <u>1-15</u> is/are rejected.								
7)⊠ Cla	7)⊠ Claim(s) <u>16 and 17</u> is/are objected to.								
8)□ Cla	aim(s) are subject to restriction	n and/or election requ	uirement.			•			
Application	Papers								
9)□ The	specification is objected to by the E	xaminer.							
	e drawing(s) filed on 26 August 2003		d or b) objected t	to by the Examine	er.				
	plicant may not request that any objection								
1	placement drawing sheet(s) including the				FR 1.121(d)).			
	e oath or declaration is objected to by								
	er 35 U.S.C. § 119								
	knowledgment is made of a claim for	foreign priority under	· 35 U.S.C. § 119(a)	o-(d) or (f).					
a)	_ /_ /_								
2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage.									
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).									
* See	the attached detailed Office action for	•	· • • • • • • • • • • • • • • • • • • •	d					
	- America Petanea Omoc dottoli le		a copies not receive	· .					
Attachment(s)			•						
1) Notice of	References Cited (PTO-892)	4)	Interview Summary						
3) 🔀 Information	Draftsperson's Patent Drawing Review (PTO- on Disclosure Statement(s) (PTO-1449 or PTC (s)/Mail Date <u>08/26/2003</u> .	O/SB/08) 5)	Paper No(s)/Mail Da Notice of Informal Pa		D-152)				
U.S. Patent and Traden PTOL-326 (Rev.		Office Action Summary	Pa	rt of Paper No./Mail D	ate 0701200	 ان 5			

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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Group I, claims 1-17, in the reply filed on May 10, 2005 is acknowledged.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-5, 10, and 12-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 5,951,892 to Wolfla et al in view of US Patent Publication 20010037823A1 to Middelman et al. Wolfla et al disclose laser cutting a gap into a ceramic which has been deposited onto a substrate. Wolfla et al do not describe the particular claimed gap dimension. Middelman et al describe well known laser cutting of

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a gap of 2 to 200 microns. Size is not a patentable feature. Forming of the instant claimed gap dimension with a laser would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because the gap dimension has been well known in the art. Wolfla et al form a gap which does not extend through the entire thickness of the ceramic. Fiber optic cable laser transmission is well known in the art and its use would have been obvious for transferring the beam to the workpiece. The intended use of the gap as a fluid channel does not impart patentability to the article manufacturing process. The spacing of gaps is a matter of design choice because plural gap forming with a laser in ceramic material has been known in the art for well over a decade.

Claims 6-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 5,951,892 to Wolfla et al in view of US Patent Publication 20010037823A1 to Middelman et al as applied to claim 1 above, and further in view of JP2001144339A. JP2001144339A discloses well known forming of first and second gaps at first and second depths. The formation of different shaped gaps in Wolfla et al in view of Middelman et al would have been obvious depending on the desired size of the gaps.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wolfla et al in view of Middelman et al as applied to claim 1 above, and further in view of USPN 4,684,780 to Cantello et al. Cantello et al disclose a well known lens. The use of a particular lens spacing would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because the lens location isolates it from the workpiece and protects it.

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Allowable Subject Matter

Claims 16 and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited art pertains to laser cutting.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel M. Heinrich whose telephone number is 571-272-1175. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas G. Dunn can be reached on 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Samuel M Heinrich Primary Examiner

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SMH